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Enhanced newsletter

Our newsletter has been enhanced to take you directly to a funding link when you click on 'More Info' (see below). Try it today!

Gigantic Cosmic Cataclysm In Stephan's Quintet Of Galaxies

-From ScienceDaily.com

Recent infrared observations made with NASA's Spitzer Space Telescope have revealed the presence of a huge intergalactic shock wave, or "sonic boom" in the middle of Stephan's



Quintet, a group of galaxies which is now the scene of a gigantic cosmic cataclysm. This discovery, made by an international research team including scientists from the Max Planck Institute for Nuclear Physics (MPIK) in Heidelberg, provides a local view of what might have been going on in the early universe, when vast mergers and collisions between galaxies were commonplace (Astrophysical Journal, in press).

When astronomers using NASA's Spitzer Space Telescope turned their attention to a well-known group of galaxies called Stephan's Quintet, they were, quite simply, shocked at what they saw. There, sweeping through the group, lurks one of the biggest shock waves ever seen.

For decades, astronomers using optical have known that the galaxies in this group, located about 300 million light years away, have a very distorted distribution of visible light from stars, indicating that the galaxies have experienced encounters in the past, and are now engaged in further collisions.

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But this, as it turns out, is only part of the drama. Recently, astronomers have become able to measure what, apart from the stars, is present in Stephan's Quintet. By looking in the radio and they discovered huge quantities of gas - about 100,000 million solar masses, mainly composed of hydrogen and helium - in the space between the galaxies, more than all the gas inside the galaxies themselves.

Now, a team of scientists from Caltech, USA and from the Astrophysics Department of the Max Planck Institute for Nuclear Physics (MPIK) in Heidelberg, Germany, together with other collaborators from the USA and Australia, have turned the Spitzer Space Telescope, equipped with a super-sensitive infrared spectrograph, towards the location of the group. They discovered that one of the galaxies, called NGC7318b, which is falling towards the others at high speed, is generating a giant shock wave in front of it - larger even than the Milky Way - as it ploughs its way through the intergalactic gas. The results of this amazing discovery are to be published on March 10th in a paper in the Astrophysical Journal Letters.

To read more of this story, visit ScienceDaily.com

Shrinking Resources

-By Chris Millard

Last week I attended a Grants Resource Center conference, meeting with OSP Directors from other institutions, and hearing from federal program officers. There is good and bad news. Almost all federal agencies are facing severe reductions in budgets. For example, Health and Human Resources (HHR), Health Resources and Services Administration (HRSA), has a 90% cut for the next fiscal year. This is troubling for WSU because we have a program funded under that appropriation.

The diminishing dollars is not surprising to anyone. We find ourselves in a costly and unpredictable war abroad. The unprecedented natural disaster in the south will cost billions in the future.

Because the number of dollars is shrinking, Principal Investigators are reluctant to submit proposals, assuming that the small

number of awards reduces the chance of being funded. I look at it this way: it is a good thing because it reduces the competition! This is the best time ever to apply! The truly worthy applications will be given greater consideration. WSU faculty have expertise equal to that of any institution and can write competitive proposals as well as any faculty in the country. This may be the best opportunity we will ever have.

It is important to note that National Science Foundation (NSF) has not been cut, and in fact, anticipates greater funding than in the past. This is the good news. If you have ever considered writing to NSF, now is the time. Check the website for opportunities at www.nsf.gov/funding to see if there is an opportunity for you. Do not hesitate to call our office.

Write a brief narrative or white paper (see our website for outline). We will help match your text with a funding source.

OSP Monthly

NEW PROPOSALS

Agency: Department of Education
Principal Investigator: Eddie Hoyle
Proposed Amount: \$ 300,000

Agency: Raytheon
Principal Investigator: John Kelly
Proposed Amount: \$ 127,140

Agency: Mike Hernandez
Principal Investigator: Utah Division of Parks
Proposed Amount: \$ 7,000

Agency: RAMWcty
Principal Investigator: Carol Biddle
Proposed Amount: Unspecified

Agency: Department of Education
Principal Investigator: Juliana Larsen
Proposed Amount: \$ 150,000

Agency: Department of Education
Principal Investigator: Jim Bird/Leslie Trottier
Proposed Amount: \$ 400,000

OSP Monthly

NEW AWARDS

Agency: Utah Department of Community & Culture/State Library Division
Principal Investigator: Chris Hauser
Amount: \$ 17,949
Title: LSTA-Technology Commons
Synopsis: Project will create a library patron study and congregation area in a 4,000 square foot space. This area will include wireless connections, laptops, private study areas, group study areas, presentation areas and more.

Agency: Raytheon Training, LLC
Principal Investigator: John Kelly
Amount: \$ 127,140
Title: Raytheon/GM Training
Synopsis: Provides hands-on-training classes and Master Technician Certifications for the General Motors Service Technician Training Program.

Agency: BearingPoint, Inc.
Principal Investigator: Laird Hartman
Amount: \$ 14,107.17
Title: Training Modules
Synopsis: US Air Force training on Purchasing and Supply Chain Management across AF workforce.

Agency: U.S. Department of Energy (DOE); National Energy Technology Laboratory (NETL)

Due Date: April 12, 2006

Amount: \$ 2 million

of Awards: 5

Synopsis: Notice seeking proposals for efforts aimed at the development of improved understanding of the potential of methane hydrates as a future energy source, the produceability of naturally occurring methane hydrate formations and their roles in the natural environment. [More Info . . .](#)

Agency: U.S. Department of Interior (DOI); Fish and Wildlife Service (FWS)

Due Date: Project proposals are accepted continuously

Amount: \$1 million

of Awards: 25

Synopsis: Notice seeking proposals for the Fisheries Conservation Management program. This program embraces a balanced approach toward aquatic resource stewardship that recognizes a need to conserve and manage self-sustaining populations and their habitats while providing quality recreational fishing.

[More Info . . .](#)

Agency: U.S. Department of State (State); Bureau Of Educational and Cultural Affairs (ECA); Office of Global Educational Programs

Due Date: April 14, 2006

Amount: \$ 500,000

of Awards: 1

Synopsis: Notice seeking proposals for the Teachers of Critical Languages Program. The program aims to strengthen national security and prosperity in the 21st century through education, especially in developing foreign language skills of Americans. Applicants may submit proposals to administer this program.

[More Info . . .](#)

Agency: National Center for Injury Prevention and Control (NCIPC)

Due Date: September 1, 2006

Amount: \$5.433 million

of Awards: 6

Synopsis: RFA announcing the availability of funds for grants for Injury Control Research Centers (ICRC). Letters of intent are optional and due August 2, 2006. [More Info . . .](#)

Agency: U.S. Department of Justice (DOJ); Office of Justice Programs (OJP); Office of Juvenile Justice Delinquency Prevention (OJJDP)

Due Date: April 17, 2006

Amount: \$ 400,000

of Awards: Unspecified

Synopsis: Notice seeking applications for OJJDP's Mentoring Initiative for System Involved Youth program. The initiative seeks to promote collaboration among community organizations and agencies committed to supporting mentoring services for such system involved youth. Its objective is to identify effective mentoring programs and determine how to enhance and expand these approaches for system involved youth.

[More Info . . .](#)

Agency: U.S. Department of Commerce (DOC); Economic Development Administration (EDA)

Due Date: Project proposals are accepted continuously

Amount: \$ 250 mil

of Awards: Unspecified

Synopsis: Notice seeking proposals that will significantly benefit areas and regions experiencing or threatened with substantial economic distress. Distress may exist in a variety of forms, including, but not limited to the following: high levels of unemployment, low income levels, large concentrations of low-income families, significant declines in per capita income, substantial loss of population because of the lack of employment opportunities, large numbers (or high rates) of business failures, sudden major layoffs or plant closures, trade impacts, military base closures, natural or other major disasters, depletion of natural resources, or reduced tax bases.

[More Info . . .](#)

Agency: U.S. Department of Health and Human Services (HHS); Substance Abuse and Mental Health Services Administration (SAMHSA)

Due Date: April 10, 2006

Amount: \$12 million

of Awards: 120

Synopsis: Notice seeking proposals for the new FY 06 Drug Free Communities Support Program (DFC). The purpose of this program is to reduce substance abuse among youth and adults and establish and strengthen collaboration among communities, private nonprofit agencies, and federal, state, local, and tribal governments to support the efforts of community coalitions to prevent and reduce substance abuse among youth. [More Info . . .](#)

Agency: Higher Education for Development (HED) and the U.S. Agency for International Development (USAID)

Due Date: April 25, 2006

Amount: Unspecified

of Awards: Unspecified

Synopsis: This program has been created to encourage colleges and universities that have never received HED funding to build partnerships with universities in developing countries. USAID is looking for new perspectives, those that differ from the usual models employed in development. The focus of these grants can be in various fields of study. Some of these are Agriculture, Agribusiness, Animal Science; Community Development; Democracy and Government, Public Policy, Law, Journalism and the Media; Economic Growth and Trade; Education; Environment, Natural Resources Management; HIV and AIDS; Internet and Communications Technology, Distance Education; Population, Health and Nutrition; and Workforce and Entrepreneurial Development.

[More Info . . .](#)

Agency: National Historical Publications and Records Commission (NHPRC); National Archives and Records Administration (NARA)

Due Date: August 1, 2006

Amount: \$2 million

of Awards: 30

Synopsis: Notice seeking proposals to publish historical records of national significance. Eligible activities include: scholarly documentary editions in printed and bound volumes; scholarly documentary editions in online, compact disc, and other formats; image editions in online, compact disc, microfilm, and other formats; conversion of existing print and microfilm editions to electronic publications; and combinations of the above.

[More Info . . .](#)

Agency: Environmental Protection Agency (EPA); Office of Research and Development (ORD)

Due Date: May 17, 2006

Amount: \$2 million

of Awards: 7

Synopsis: Notice seeking applications proposing innovative regional projects that apply science to decision-making to address a stated problem or opportunity relating to sustainability.

[More Info . . .](#)

Agency: Department of Health and Human Services (HHS); Centers for Disease Control and Prevention (CDC)

Due Date: April 10, 2006

Amount: \$150,000

of Awards: 1

Synopsis: Notice seeking applications for investigator-initiated research that will help expand and advance CDC's understanding of parental factors related to children missing scheduled immunization visits or well child visits in which immunizations were to be provided.

[More Info . . .](#)

Agency: U.S. Geological Survey (USGS)

Due Date: May 2, 2006

Amount: \$5.5 million

of Awards: 90 to 100

Synopsis: Notice seeking proposals for research projects under the National Earthquake Hazards Reduction Program, the purpose of which is to provide products for earthquake loss reduction to the public and private sectors and to conduct research on earthquake occurrence and effects.

[More Info . . .](#)

Agency: U.S. Department of Education (ED)

Synopsis: Special notice announcing the availability of the FY 06 Forecast of ED Contract Opportunities. The forecast is available for viewing and/or downloading through MS Word.

[More Info . . .](#)

Office of Sponsored Projects

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Tony Aragon, Administrator
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We're on the Web!

Visit us at:

<http://weber.edu/OSP/default.html>
